

THE INVENTION CLAIMED IS:

1. A restraint clip comprising:

an engaging member, the engaging member having a body defining an engaging member hole and two abutting surfaces;

a lock having a lock body with a base defining a lock hole spatially aligned with the threaded engaging member hole, wherein said lock coacts with the engaging member;

a fastener extending along a longitudinal axis threadably engaged with the engaging member hole and passing through the lock hole; and

a stop attached to said fastener coacting with said lock,

whereby the engaging member is adapted to move along the longitudinal axis relative to the fastener when the fastener is rotated about the longitudinal axis.

2. The restraint clip of claim 1, wherein the engaging member is a rectangular prism having a dovetail shape.

3. The restraint clip of claim 1, wherein the engaging member has two non-abutting surfaces and the lock body has a first vertical arm extending from the base, wherein the first vertical arm abuts one of the two non-abutting surfaces of the engaging member.

4. The restraint clip of claim 3, wherein the lock body has a second vertical arm extending from a second side of the planar base in parallel with the first vertical arm, wherein the second vertical arm abuts the other of the two non-abutting surfaces of the engaging member.

5. The restraint clip of claim 1, wherein the stop is a nut defining a threaded hole threadably received by the fastener, the lock body includes a lock member positioned between the nut and the engaging member.

6. The restraint clip of claim 1, wherein the base of the lock body has a first wing and a second wing extending therefrom.

7. The restraint clip of claim 1, wherein said fastener is a bolt.

8. A restraint clip comprising:

an engaging member, the engaging member having a body defining a threaded engaging member hole, two abutting surfaces, and two non-abutting surfaces;

a lock having a lock body with a planar base defining a lock hole coaxial with the threaded engaging member hole, the base having two spatially separated vertical arms that define an engaging member receiving recess, wherein the arms coact with the two non-abutting surfaces of the engaging member;

a threaded fastener extending along a longitudinal axis threadably engaged with the engaging member hole and engaged with the lock hole; and

a stop having a threaded stop hole threadably received by the fastener,

whereby the engaging member is adapted to move along a longitudinal axis when said fastener is rotated about a longitudinal axis, and whereby the engaging member is able to be restrained from rotating about the longitudinal axis by the lock.

9. The restraint clip of claim 8, wherein the two non-abutting surfaces of the engaging member are contained in parallel planes and at least one of an inner surface of the vertical arms extends in the parallel planes.
10. The restraint clip of claim 8, wherein the two abutting surfaces are non-parallel diverging surfaces.
11. The restraint clip of claim 8, wherein the engaging member is a rectangular prism having a dovetail shape.
12. The restraint clip of claim 8, wherein the stop is a nut defining a threaded hole threadably received by the threaded fastener, the lock body includes a lock member positioned between the nut and the engaging member.
13. The restraint clip of claim 8, wherein the base of the lock body has a first wing and a second wing extending therefrom.
14. The restraint clip of claim 8, wherein the fastener is a bolt.
15. A restraint clip system, comprising:
  - a supporting structure having a body, the supporting structure body defining a rib, the rib having a recess with converging walls;
  - an engaging member, the engaging member having a body defining a threaded engaging member hole and two abutting surfaces;

a lock having a lock body with a base defining a lock hole spatially aligned with the threaded engaging member hole, wherein said lock coacts with the engaging member;

a stop, the stop having a body defining a threaded stop hole; and

a fastener extending along a longitudinal axis threadably engaged with the engaging member hole, engaged with the lock hole, and threadably engaged with the stop hole,

whereby the two abutting surfaces of the engaging member coact with the converging walls of the rib.

16. The restraint clip system of claim 15, wherein the engaging member is a rectangular prism having a dovetail shape.

17. The restraint clip system of claim 15, wherein the engaging member has two non-abutting surfaces and the lock body has a first vertical arm extending from the base, wherein the first vertical arm abuts one of the two non-abutting surfaces of the engaging member.

18. The restraint clip system of claim 17, wherein the lock body has a second vertical arm extending from a second side of the base in parallel with the first vertical arm, wherein the second vertical arm abuts at one of the two non-abutting surfaces of the engaging member.

19. A method of using a restraint clip system, the method comprising the steps of:

(a) providing a supporting structure having a body, said supporting structure body defining a rib, the rib having a recess with converging walls;

(b) providing an engaging member, the engaging member having a body with a base defining an engaging member hole, two abutting surfaces, and two non-abutting surfaces;

(c) providing a lock having a lock body defining a lock hole spatially aligned with the threaded engaging member hole, wherein the lock coacts with the engaging member;

(d) providing a stop, the stop having a body defining a threaded stop hole;

(e) providing a fastener extending along a longitudinal axis threadably engaged with the engaging member hole, engaged with the lock hole, and threadably engaged with the stop hole, wherein the engaging member is adapted to move along a longitudinal axis relative to the fastener when the fastener is rotated about the longitudinal axis;

(f) positioning the engaging member so as to have the non-abutting surfaces coact with the lock body;

(g) positioning the engaging member so as to have the two abutting surfaces of the engaging member coact with the converging walls of the rib, wherein the lock secures the engaging member in a desired position in the rib; and

(h) moving the lock body along the longitudinal axis while rotating the fastener so that the surfaces of the lock contact the surfaces of the supporting structure and the surfaces of the engaging member contact the surfaces of the supporting structure.

20. The restraint clip as claimed in claim 5, further comprising a washer received by the fastener and positioned between the stop and the lock member.